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## OCS TIME SHARING SYSTEM

### ACTION COMPONENT(S):

OCS

### USER COMPONENT(S):

All Agency components requiring direct access, interactive, fast response capability from computer systems.

### OBJECTIVES:

The objective of this project is to establish a computer system which can provide many users with concurrent access to a computer linked to remote consoles. The system permits interleaving of many tasks by providing each user with "slices" of time on the central processor. Generally the functions which are performed by the user at the remote terminal consume significant (relatively) amounts of time, while the actual processing of the data in the central computer consumes minute amounts of time. The desired result is that the computer, in a well-balanced system, is able to service all users so quickly that they do not experience any recognizable waiting time, hence, the remote user gets the impression that he is the only user of the system. A variety of facilities appropriate to this kind of use to a computer--such as "browsing" through computer stored files, using the terminal as a teaching device, on-line computer programming, etc.--are goals within this concept.

### DESCRIPTION:

OCS has developed a limited time sharing system to modulate the impact of delays in the delivery of an IBM-provided time sharing package. Testing of the system has been performed on an IBM 360/40 system. An initial operating capability of the time sharing system is underway in OCS with remote terminals in the Office of Security, the DDI area, FMSAC, and OCS. The system is considered to be experimental in nature and will provide useful information on the real experience and utility of such systems.

This system is also intended to provide the basic structure within which the Agency can satisfy requirements for its participation in COINS. It is expected that during the period FY 69-73 this system

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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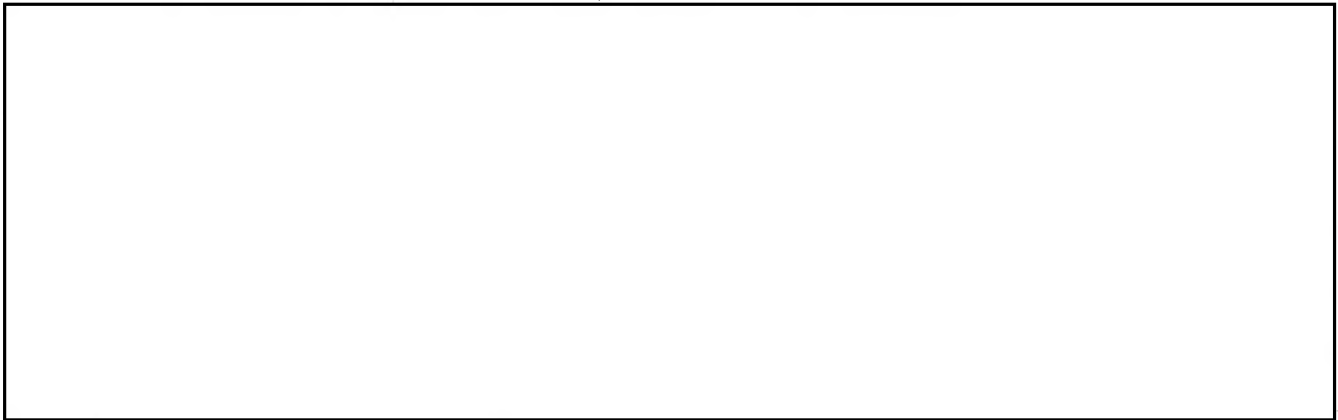
will undergo significant changes to meet the needs of additional user requirements. Incorporation of new hardware, the application of new computer programming techniques, and advancements in the telecommunications can be expected. Increased effort will be applied to user and system evaluation, use of graphic devices, development of software/hardware for interfacing data communication networks with the various computer systems, the study of feasibility of computer-to-computer networks within the Agency, and application areas such as computer assisted instruction and conversational programming.

#### CHRONOLOGY:

Initiated: FY-66

Operational: FY-68

Operational Evaluation: FY-69 , 25X1

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